

ABSTRACT

A premixed combustion gas burner having separated fire hole units including a tube-shaped burner whose front face is opened and inner portion is of a hollow tubular shape
5 so that the whole fire hole units of the burner can be separated to thus prevent deformation due to thermal expansion, in which fire hole units each having a number of fire holes formed at a predetermined distance from one another are disposed in both edge lines and the inner portion on the upper end face, and loaders each having a predetermined space are formed between the fire hole units; and a plate-shaped burner which is made of a plate-shaped
10 material having a pin structure formed on the bottom thereof so as to be mounted on the loaders formed in the tube-shaped burner, in which fire hole units having a number of fire holes formed at a predetermined distance are disposed in the form of a slit along both the edge lines of the upper end face. Here, the number of fire holes forming the fire hole units of the tube-shaped burner and the plate-shaped burner are formed with a uniform size by a press, and
15 a cooling water tube is disposed to penetrate the fire holes through fitting holes formed on the lateral surface of the tube-shaped burner and fitting holes formed on the pin-structure formed on the bottom of the plate-shaped burner, in correspondence to the fitting holes of the tube-shaped burner.